Amendments To The Claims:

Please amend the claims as shown.

1 – 18 (canceled)

19.   (new) A method for setting the transmission parameters of transmission channels combined in a group, comprising:

setting transmission parameters for each transmission channel as a function of the determined transmission characteristics of the respective transmission channel and of an assigned service, with the transmission channels in each case being assigned one of at least two services having different value ratings;

mutually influencing the transmission channels of the group through spectral interference;

identifying the influencing relationships between the transmission channels by continual determination of the spectral interference in the transmission channels and of the status changes of the transmission channels; and

optimizing the transmission parameters of the transmission channels as a function of the identified influencing relationships and the value rating of their respective services.

20.   (new) The method as claimed in claim 19, wherein a plurality of subgroups of transmission channels are classified as a function of the influencing relationships.

21.   (new) The method as claimed in claim 19, wherein the influencing relationships exert a spectral influence on which other transmission channels are identified and the transmission channels are classified into subgroups by means of an algebraic method based on binary state vectors.

22.   (new) The method as claimed in claim 19, wherein the transmission parameters of the transmission channels are continually optimized at regular or predefinable time intervals or upon status changes, as a function of the identified influencing relationships and the value rating of their respective services.

23.   (new) The method as claimed in claim 19, wherein the value rating of the services is dependent on charges to be achieved with the respective services or on a guaranteed transmission quality or guaranteed transmission capacity or a guaranteed transmission speed.

24.   (new) The method as claimed in one claim 19, wherein the spectral influencing is determined by continual measurement of the noise/useful signal ratio in the transmission channels.

25.   (new) The method as claimed in claim 19, wherein the status changes of the transmission channels are represented by a change from an active to an inactive state or from an inactive to an active state or from an active to an error state or from an inactive to an error state or from an error state to an active state or from an error state to an inactive state.

26.   (new) The method as claimed in claim 19, wherein the transmission channels operating according to the asynchronous transfer mode, a status change is represented by the determination of idle cells in a predefined time period or a predefined number.

27.   (new) The method as claimed in claim 26, wherein after status changes in broadband transmission channels an initialization procedure determining the transmission parameters is initiated in the broadband transmission equipments assigned to the transmission channels and the spectral influence is determined from the transmission parameters.

28.   (new) The method as claimed in claim 27, wherein the optimized transmission parameters are set for the respective transmission channels in the transmission equipment in the course of the initialization procedure.

29.   (new) The method as claimed in claim 19, wherein a unidirectional transmission channel is considered as one transmission channel and a bidirectional transmission channel is considered as two transmission channels.

30.   (new) The method as claimed in claim 19, wherein the spectral interferences are measured in the transmission channels via which no transmission method-specific signals are transmitted, and said spectral interferences are included in the optimization of the transmission parameters.

31.   (new) The method as claimed in claim 19, wherein the transmission parameters are represented by the transmit power distribution in the respective transmission channel.

32.   (new) The method as claimed in claim 20, wherein the group or subgroups of transmission channels are implemented in a trunk group or a radio area or at a node of a wired or wireless communication network.

33.   (new) The method as claimed in claim 31, wherein the transmission channels physically hierarchically network-structured at a node are mapped onto a logically star-shaped structure, with lower-ranking nodes being controlled by the central node.

34.   (new) The method as claimed in claim 19, wherein the transmission parameters of the transmission channels of a group or subgroup of transmission channels are optimized as a function of the identified influencing relationships and the value rating of their respective services with the aid of a mathematical optimization method.

35.   (new) The method as claimed in claim 19, wherein the transmission meters of the transmission channels are in each case referred to an OFDM or a DMT transmission method.

36.   (new) A communication equipment for setting the transmission parameters for transmission channels combined into a group, comprising:

a plurality of transmission equipments connected to the communication equipment, in each case terminating the transmission channels, for determining the transmission characteristics of the respective transmission channel and for recording the transmission characteristics in the communication equipment; and

a device for setting the transmission parameters as a function of the determined transmission characteristics of the respective transmission channel and of an assigned service, with the transmission channels in each case being assigned one of at least two different value ratings, and the transmission channels of the group being able to exert a mutual influence through spectral interference,

wherein the communication equipment is embodied for recording the spectral influence in the transmission channels and the status changes of the transmission channels and for identifying the influencing relationships between the transmission channels, and an optimization routine is provided for optimizing the transmission parameters of the transmission channels as a function of the identified influencing relationships and the value rating of their respective services.